Fig.1

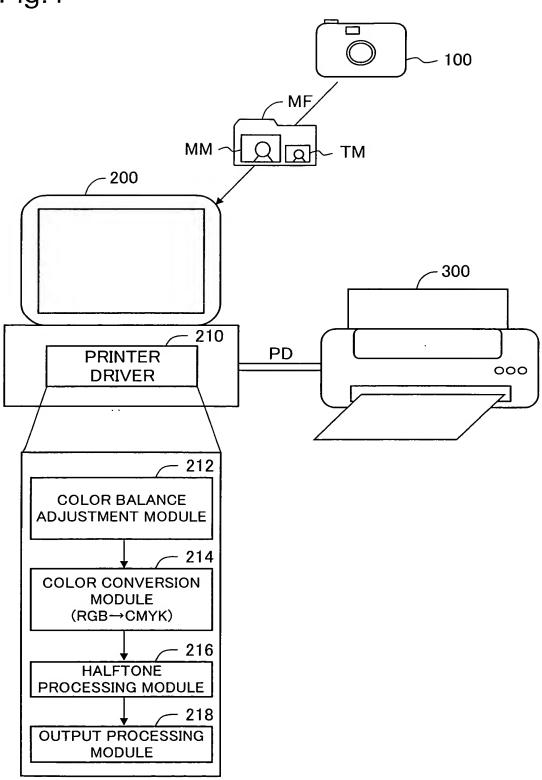
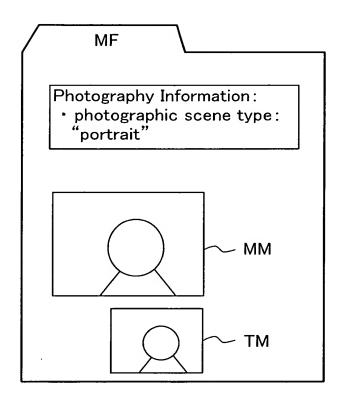


Fig.2



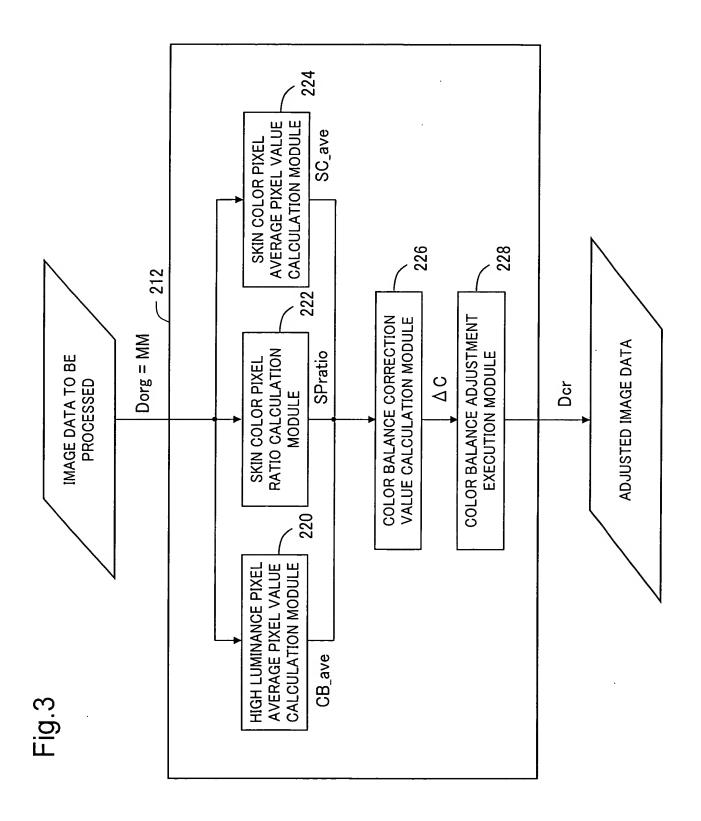
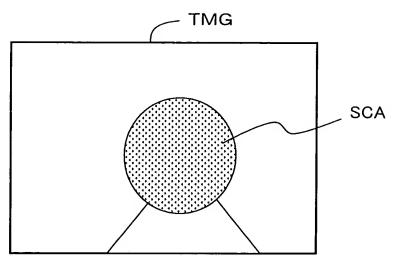


Fig.4



Color Balance Adjustment Parameters

• High luminance pixel average pixel value CB_ave:

Color component average values: CB_ave(R), (G) and (B)

Average luminance value: CB_ave(Y)

Average hue value: CB_ave(H)

•Skin color pixel ratio SPratio:

SPratio = [skin color pixel count]/[total pixel count]

• Skin color pixel average pixel value SC_ave:

SC_ave(R), (G), (B)

• Skin color target value SC_target:

 $SC_{target}(R)$, (G), (B)

• Color balance correction values ΔC :

 $\Delta C(R) = K1 \times \{CB_ave(Y) - CB_ave(R)\}$

+ $k2 \times \{SC_{target}(R) - SC_{ave}(R)\} \times SP_{ratio}$

 $\Delta C(G) = K1 \times \{CB_ave(Y) - CB_ave(G)\}$

+ $k2 \times \{SC_{target}(G) - SC_{ave}(G)\} \times SPratio$

 $\Delta C(B) = K1 \times \{CB_ave(Y) - CB_ave(B)\}$

+ k2 × (SC_target(B) - SC_ave(B)) × SPratio

Fig.5

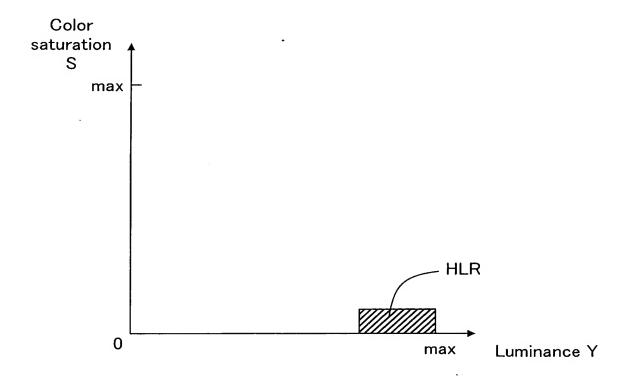


Fig.6

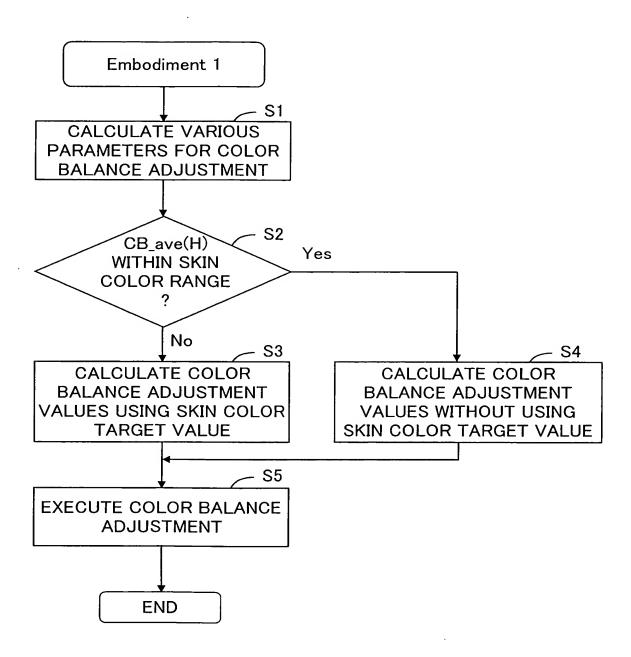
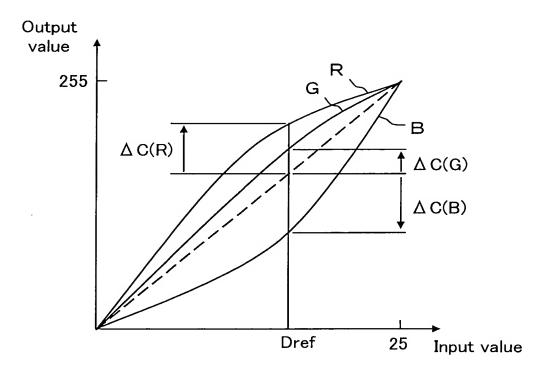


Fig.7



Dref=CB_ave(Y) or Dref=192

Fig.8

